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JAPG Rec'd PCT/PTO 15 AUG 2006

PATENT APPLICATION

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re application of

Docket No: Q96529

Kenji MIYAZAKI, et al.

PCT/JP2004/012107  
-filed August 24, 2004

Appln. No.: Not assigned yet

Confirmation No.: Not assigned yet

Group Art Unit: Not assigned yet

Filed: August 15, 2006

Examiner: Not assigned yet

For: METHOD OF ANALYZING C-TERMINAL AMINO ACID SEQUENCE OF PEPTIDE

**INFORMATION DISCLOSURE STATEMENT**  
**UNDER 37 C.F.R. §§ 1.97 and 1.98**

**MAIL STOP AMENDMENT**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

In accordance with the duty of disclosure under 37 C.F.R. § 1.56, Applicants hereby notify the U.S. Patent and Trademark Office of the documents which are listed on the attached PTO/SB/08 A & B (modified) form and/or listed herein and which the Examiner may deem material to patentability of the claims of the above-identified application.

1. Japanese Patent Application Publication No. 2003-279581, published October 2, 2003, along with English-Language Abstract;

2. Japanese Patent Application Publication No. 10-293130, published November 4, 1998, along with English-Language Abstract;

INFORMATION DISCLOSURE STATEMENT  
New U.S. National Stage Entry of PCT/JP2004/012107

3. Kenji Miyazaki et al. "C-Terminal Sequencing Method for Proteins in Gel by The Reaction of Acetic Anhydride with Perfluoric Acid", Seikagaku Vol. 75, No. 8, page 924, (2003);

4. David H. Hawke et al. "Microsequence Analysis of Peptides and Proteins: Trimethylsilylisothiocyanate as a Reagent for COOH-Terminal Sequence Analysis" ANALYTICAL BIOCHEMISTRY, 166, Pages 298 to 307, (1987);

5. Akira Tsugita et al. "C-Terminal Sequencing of Protein, A Novel Partial Acid Hydrolysis and Analysis by Mass Spectrometry" Research Institute for Biosciences, Science University of Tokyo, January 23, 1992, pages 43 to 48;

6. Akira Tsugita et al. "Reaction of Pentafluoropropionic Anhydride Vapor on Polypeptide as Revealed by Mass Spectrometry. A Carboxypeptidase Mimetic Degradation", The Chemical Society of Japan, Chemistry letters, pp. 235-238, 1992;

7. Keiji Takamoto et al. "Carboxy-Terminal Degradation of Peptides using Perfluoroacyl Anhydrides A C-Terminal Sequencing Method" Research Institute for Biosciences, Department of Pharmacology, Science University of Tokyo, Japan, pp. 228, 362-372, (1995).

One copy of each of the listed documents is submitted herewith.

The present Information Disclosure Statement is being filed: (1) No later than three months from the application's filing date; (2) Before the mailing date of the first Office Action on the merits (whichever is later); or (3) Before the mailing date of the first Office Action after filing a request for continued examination (RCE) under §1.114, and therefore, no Statement under 37 C.F.R. § 1.97(e) or fee under 37 C.F.R. § 1.17(p) is required.

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In compliance with the concise explanation requirement under 37 C.F.R. § 1.98(a)(3) for foreign language documents, Applicants state that references 1 through 3 are cited within the specification beginning at page 5, line 2. Applicants also enclose herewith a copy of an International Search Report citing documents 1 through 3, indicating the degree of relevance found by the foreign patent office.

The submission of the listed documents is not intended as an admission that any such document constitutes prior art against the claims of the present application. Applicant does not waive any right to take any action that would be appropriate to antedate or otherwise remove any listed document as a competent reference against the claims of the present application.

The USPTO is directed and authorized to charge all required fees, except for the Issue Fee and the Publication Fee, to Deposit Account No. 19-4880. Please also credit any overpayments to said Deposit Account.

Respectfully submitted,



Howard L. Bernstein  
Registration No. 25,665

SUGHRUE MION, PLLC  
Telephone: (202) 293-7060  
Facsimile: (202) 293-7860

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Date: August 15, 2006

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| Substitute for Form 1449 A & B/PTO<br><br><b>INFORMATION DISCLOSURE<br/>STATEMENT BY APPLICANT</b><br><br><i>(use as many sheets as necessary)</i> |                  |    | <i>Complete if Known</i> |                  |  |
|  |                  |    | Application Number       | Not assigned yet |  |
|  |                  |    | Confirmation Number      | Not assigned yet |  |
|  |                  |    | Filing Date              | August 15, 2006  |  |
|  |                  |    | First Named Inventor     | Kenji MIYAZAKI   |  |
|  |                  |    | Art Unit                 | Not assigned yet |  |
| Examiner Name  | Not assigned yet |    |                          |                  |  |
| Attorney Docket Number   | Q96529           |    |                          |                  |  |
| Sheet  | 1                | of | 1                        |                  |  |

| U.S. PATENT DOCUMENTS |                       |                 |                                      |                                |   |
|-----------------------|-----------------------|-----------------|--------------------------------------|--------------------------------|---|
| Examiner Initials*    | Cite No. <sup>1</sup> | Document Number |                                      | Publication Date<br>MM-DD-YYYY | Name of Patentee or Applicant of Cited Document |
|                       |                       | Number          | Kind Code <sup>3</sup><br>(if known) |                                |   |
|                       |                       | US              |                                      |                                |   |
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| FOREIGN PATENT DOCUMENTS |                          |                              |                     |   |                                |  |                          |
|--------------------------|--------------------------|------------------------------|---------------------|---|--------------------------------|--|--------------------------|
| Examiner<br>Initials*    | Cite<br>No. <sup>1</sup> | Foreign Patent Document      |                     |   | Publication Date<br>MM-DD-YYYY | Name of Patentee or<br>Applicant of Cited Document | Translation <sup>6</sup> |
|                          |                          | Country<br>Code <sup>3</sup> | Number <sup>4</sup> | Kind Code <sup>5</sup><br><i>(if known)</i> |                                |  |                          |
|                          |                          | JP                           | 2003-279581         | A   | 10-02-2003                     |  |                          |
|                          |                          | JP                           | 10-293130           | A   | 11-04-1998                     |  |                          |
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| NON PATENT LITERATURE DOCUMENTS |                       |  |                          |
|---------------------------------|-----------------------|--|--------------------------|
| Examiner Initials*              | Cite No. <sup>1</sup> | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city, and/or country where published. | Translation <sup>6</sup> |
|                                 |                       | Kenji Miyazaki et al. "C-Terminal Sequencing Method for Proteins in Gel by The Reaction of Acetic Anhydride with Perfluoric Acid", Seikagaku Vol. 75, No. 8, page 924, (2003).   |                          |
|                                 |                       | David H. Hawke et al. "Microsequence Analysis of Peptides and Proteins: Trimethylsilylisothiocyanate as a Reagent for COOH-Terminal Sequence Analysis" ANALYTICAL BIOCHEMISTRY, 166, Pages 298 to 307, (1987).   |                          |
|                                 |                       | Akira Tsugita et al. "C-Terminal Sequencing of Protein, A Novel Partial Acid Hydrolysis and Analysis by Mass Spectrometry" Research Institute for Biosciences, Science University of Tokyo, January 23, 1992, pages 43 to 48.                                    |                          |
|                                 |                       | Akira Tsugita et al. "Reaction of Pentafluoropropionic Anhydride Vapor on Polypeptide as Revealed by Mass Spectrometry. A Carboxypeptidase Mimetic Degradation", The Chemical Society of Japan, Chemistry letters, pp. 235-238, 1992.                            |                          |
|                                 |                       | Keiji Takamoto et al. "Carboxy-Terminal Degradation of Peptides using Perfluoroacyl Anhydrides A C-Terminal Sequencing Method" Research Institute for Biosciences, Department of Pharmacology, Science University of Tokyo, Japan, pp. 228, 362-372, (1995).     |                          |

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| Examiner Signature |  | Date Considered |  |
|--------------------|--|-----------------|--|

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>See Kind Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov), MPEP 901.04 or follow the hyperlink from the title of the document to the intranet. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST. 3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup>Applicant is to indicate here if English language Translation is attached.